ViewSonic®

Pro6200
DLP Projector
User Guide

IMPORTANT: Please read this User Guide to obtain important information on installing and using your product in a safe manner, as well as registering your product for future service. Warranty information contained in this User Guide will describe your limited coverage from ViewSonic Corporation, which is also found on our web site at http://www.viewsonic.com in English, or in specific languages using the Regional selection box in the upper right corner of our website. “Antes de operar su equipo lea cu idadosamente las instrucciones en este manual”

Model No. VS13870

Compliance Information

FCC Statement

This device complies with part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning: You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

For Canada

- This Class B digital apparatus complies with Canadian ICES-003.
- Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

CE Conformity for European Countries

CE The device complies with the EMC Directive 2004/108/EC and Low Voltage Directive 2006/95/EC.

Following information is only for EU-member states:

The mark is in compliance with the Waste Electrical and Electronic Equipment Directive 2002/96/EC (WEEE).
The mark indicates the requirement NOT to dispose the equipment including any spent or discarded batteries or accumulators as unsorted municipal waste, but use the return and collection systems available.

If the batteries, accumulators and button cells included with this equipment, display the chemical symbol Hg, Cd, or Pb, then it means that the battery has a heavy metal content of more than 0.0005% Mercury or more than, 0.002% Cadmium, or more than 0.004% Lead.

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this unit near water.
6. Clean with a soft, dry cloth.
7. Do not block any ventilation openings. Install the unit in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade and the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs. Convenience receptacles and the point where they exit from the unit. Be sure that the power outlet is located near the unit so that it is easily accessible.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the unit. When a cart is used, use caution when moving the cart/unit combination to avoid injury from tipping over.

13. Unplug this unit when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the unit has been damaged in any way, such as: if the power-supply cord or plug is damaged, if liquid is spilled onto or objects fall into the unit, if the unit is exposed to rain or moisture, or if the unit does not operate normally or has been dropped.

Declaration of RoHS Compliance

This product has been designed and manufactured in compliance with Directive 2002/95/EC of the European Parliament and the Council on restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS Directive) and is deemed to comply with the maximum concentration values issued by the European Technical Adaptation Committee (TAC) as shown below:

Substance	Proposed Maximum Concentration	Actual Concentration
Lead (Pb)	0.1%	< 0.1%
Mercury (Hg)	0.1%	< 0.1%
Cadmium (Cd)	0.01%	< 0.01%
Hexavalent Chromium (Cr^{6+})	0.1%	< 0.1%
Polybrominated biphenyls (PBB)	0.1%	< 0.1%
Polybrominated diphenyl ethers (PBDE)	0.1%	< 0.1%

Certain components of products as stated above are exempted under the Annex of the RoHS Directives as noted below:

Examples of exempted components are:

1. Mercury in compact fluorescent lamps not exceeding 5 mg per lamp and in other lamps not specifically mentioned in the Annex of RoHS Directive.
2. Lead in glass of cathode ray tubes, electronic components, fluorescent tubes, and electronic ceramic parts (e.g. piezoelectronic devices).
3. Lead in high temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead).
4. Lead as an allotting element in steel containing up to 0.35% lead by weight, aluminium containing up to 0.4% lead by weight and as a cooper alloy containing up to 4% lead by weight.

Copyright Information

Copyright© ViewSonic® Corporation, 2012. All rights reserved.
Macintosh and Power Macintosh are registered trademarks of Apple Inc.
Microsoft, Windows, Windows NT, and the Windows logo are registered trademarks of Microsoft Corporation in the United States and other countries.
ViewSonic, the three birds logo, OnView, ViewMatch, and ViewMeter are registered trademarks of ViewSonic Corporation.
VESA is a registered trademark of the Video Electronics Standards Association. DPMS and DDC are trademarks of VESA.
PS/2, VGA and XGA are registered trademarks of International Business Machines Corporation.
Disclaimer: ViewSonic Corporation shall not be liable for technical or editorial errors or omissions contained herein; nor for incidental or consequential damages resulting from furnishing this material, or the performance or use of this product.
In the interest of continuing product improvement, ViewSonic Corporation reserves the right to change product specifications without notice. Information in this document may change without notice.
No part of this document may be copied, reproduced, or transmitted by any means, for any purpose without prior written permission from ViewSonic Corporation.

Product Registration

To meet your future needs, and to receive any additional product information as it becomes available, please register your product on the Internet at: www.viewsonic.com. The ViewSonic® Wizard DVD-ROM also provides an opportunity for you to print the registration form, which you may mail or fax to ViewSonic.

For Your Records

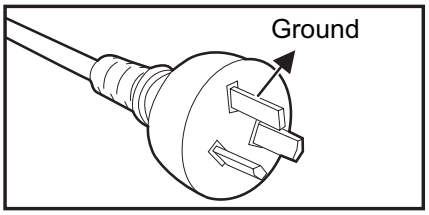
Product Name:	Pro6200 ViewSonic DLP Projector
Model Nu mber:	VS13870
Document Number:	Pro6200_UG_ENG Rev. 1A 04-06-12
Serial Number:	_____
Purchase Date:	_____

Product disposal at end of product life

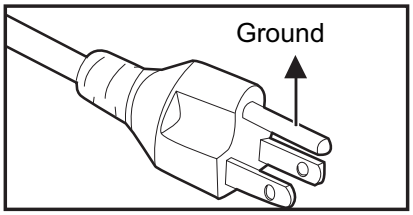
The lamp in this product contains mercury which can be dangerous to you and the environment. Please use care and dispose of in accordance with local, state or federal laws.
ViewSonic respects the environment and is committed to working and living green. Thank you for being part of Smarter, Greener Computing. Please visit ViewSonic website to learn more.
USA & Canada: http://www.viewsonic.com/company/green/recycle-program/
Europe: http://www.viewsoniceurope.com/uk/kbase/article.php?id=639
Taiwan: http://recycle.epa.gov.tw/recycle/index2.aspx

Notes on the AC power cord

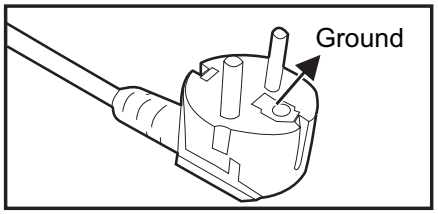
AC Power Cord must meet the requirement of countries where you use this projector. Please confirm your AC plug type with the graphics below and ensure that the proper AC Power Cord is used. If the supplied AC Power Cord does not match your AC outlet, please contact your sales dealer. This projector is equipped with a grounding type AC line plug. Please ensure that your outlet fits the plug. Do not defeat the safety purpose of this grounding type plug. We highly recommend using a video source device also equipped with a grounding type AC line plug to prevent signal interference due to voltage fluctuations.



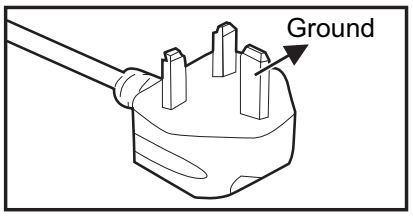
For Australia and Mainland China



For the U.S.A. and Canada



For Continental Europe



For the U.K.

Table of contents

Introduction 1

Projector features 1
Package contents 2
Projector overview 3

Using the product 5

Control panel 5
Connection ports 6
Remote control 7
Installing the Batteries 9
Remote control operation 10

Connection 11

Connecting a computer or monitor 12
Connecting Video source devices 13

Operation 16

Powering on/off the projector 16
Adjusting the projector height 17
Adjusting the Projector Zoom and Focus 17
Adjusting Projection Image Size 18
Locking control keys 19
Setting the presentation timer 20
Menu operation 21

Maintenance 29

Cleaning the lens 29
Cleaning the projector housing 29
Replacing the Lamp 30

Specifications 32

Dimensions 33
Ceiling mount installation 33

Appendix 34

LED Indicator Messages 34
Compatibility Modes 35
Troubleshooting 37
RS-232 Command and Configuration 38
IR Control Code 41

Introduction

Projector features

The projector integrates high-performance optical engine projection and a user - friendly design to deliver high reliability and ease of use.

The projector offers the following features:

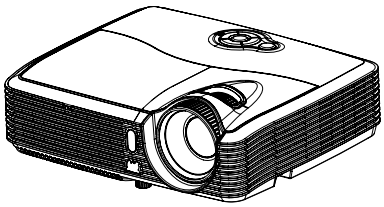
- Single chip 0.65" Texas Instruments DLP® technology
- HD 720p (1280 x 720 pixels), support (1280 x 800 pixels)
- Compatibility with Macintosh® computers
- Compatibility with NTSC, PAL, SECAM and HDTV
- D-Sub 15-pin terminal for analog video connectivity
- User-friendly, multi-language on-screen display
- Advanced electronic keystone correction
- RS-232 connector for serial control
- Less than 1 W power consumption in standby mode
- HDMI compatibility
- Auto Keystone
- Presentation timer for better control of time during presentations

☞ ***Note***

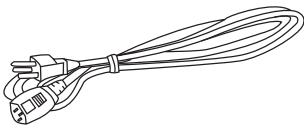
- ***The information in this manual is subject to change without notices.***
- ***The reproduction, transfer or copy of all or any part of this document is not permitted without express written consent.***

Package contents

When you unpack the projector, make sure you have all these components:

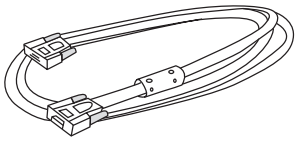


Projector

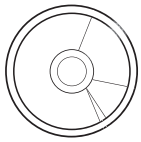


AC Power Cord

Remote Control (IR) & batteries (AAA *2 PCS)

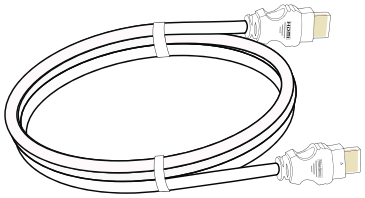


VGA Cable (D-SUB to D-SUB)

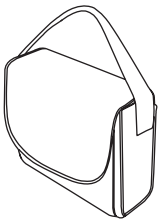


ViewSonic CD Wizard

Quick Start Guide



HDMI Cable



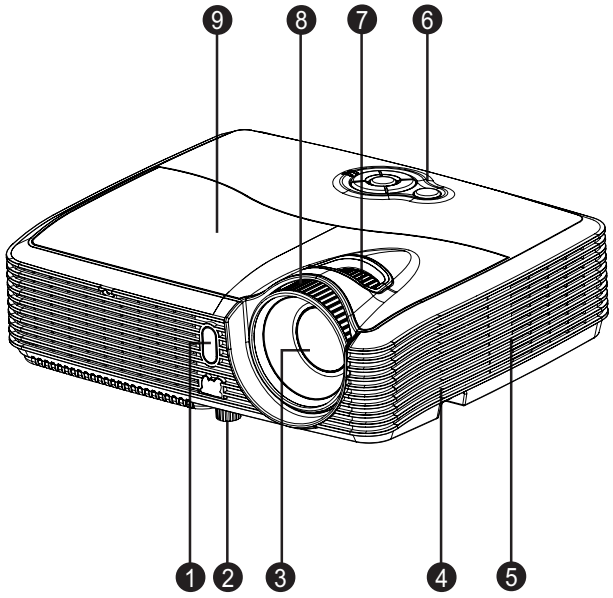
Projector Carrying Case

☞ ***Note***

- ***Contact you dealer immediately if any items are missing, appear damaged, or if the unit does not work.***
- ***For maximum protection of the product, please save the original shipping carton and packing materials and repack your product as it was originally packed at the factory if you need to ship it.***

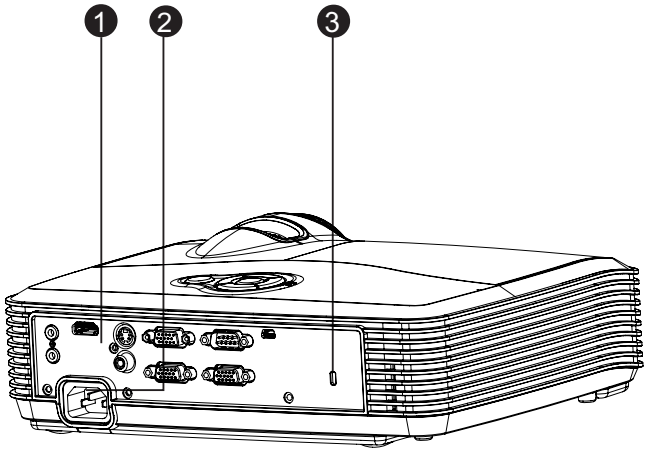
Projector overview

Front view



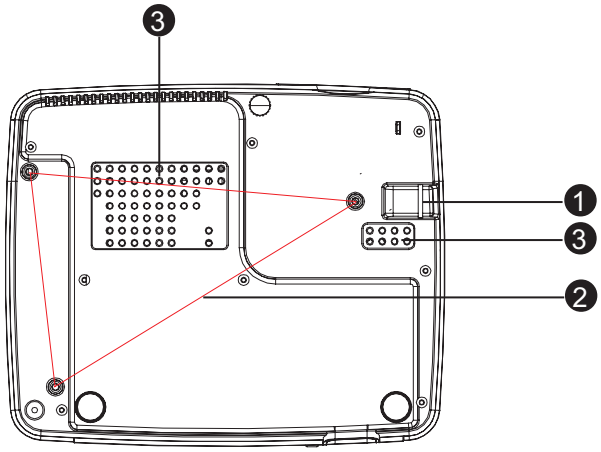
1. Front IR remote control sensor
2. Elevator foot
3. Projection lens
4. Speaker
5. Ventilation holes
6. Control panel
7. Zoom ring
8. Focus ring
9. Lamp cover

Rear View



1. Connection ports
2. AC power socket
3. Kensington lock

Bottom View



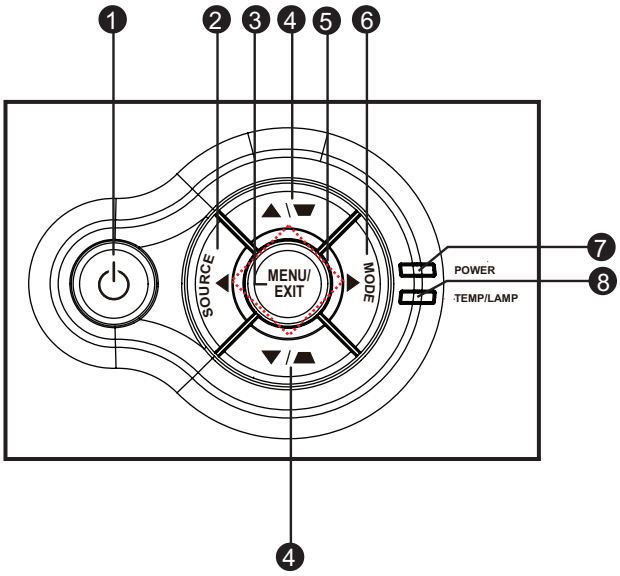
1. Security bar
2. Ceiling mount holes
3. Ventilation holes

☞ ***Note***

- ***This projector can be used with a ceiling mount for support. The ceiling mount is not included in the package.***
- ***Contact your dealer for information to mount the projector on a ceiling.***

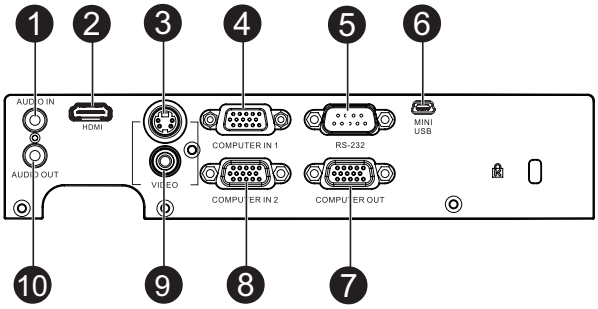
Using the product

Control panel



1. **Power**
   Turn the projector on or off.
2. **SOURCE**
   Display the source selection bar.
3. **MENU/EXIT**
   Display or exit the on-screen display menus.
4. **Keystone/Arrow keys (▲/Up, ▼/Down)**
   Manually correct distorted images resulting from an angled projection.
5. **Four directional buttons**
   Use four directional buttons to select items or make adjustments to your selection.
6. **MODE**
   Change the color mode setting by sequence.
7. **POWER** (Power LED indicator)
   Refer to “LED Indicator Messages”.
8. **TEMP/LAMP** (Temp/Lamp LED indicator)
   Refer to “LED Indicator Messages”.

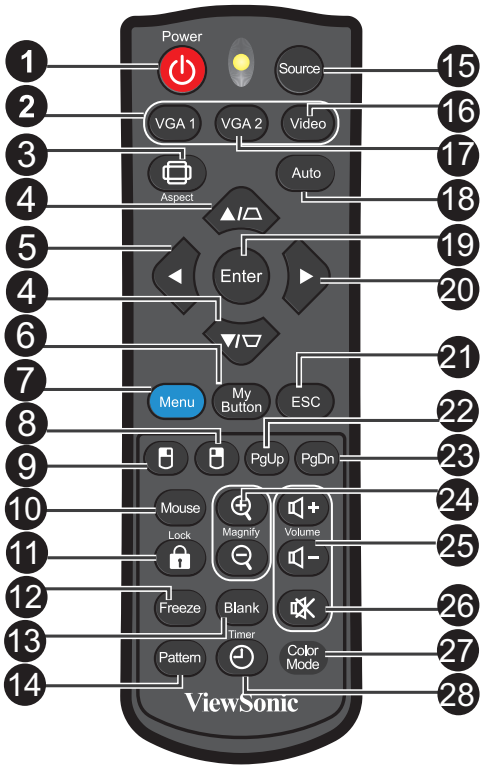
Connection ports



1. **AUDIO IN**
   Connect an audio output from video equipment or computer to this jack.
2. **HDMI**
   Connect HDMI output from video equipment to this jack.
3. **S-VIDEO**
   Connect S-Video output from video equipment to this jack.
4. **COMPUTER IN 1**
   Connect image input signal (analog RGB or component) to this jack.
5. **RS-232**
   When operating the projector via a computer, connect this to the controlling computer's RS-232C port.
6. **MINI USB**
   This connector is for firmware update and mouse function support.
7. **COMPUTER OUT**
   Connect to a computer display, etc.
8. **COMPUTER IN 2**
   Connect image input signal (analog RGB or component) to this jack.
9. **VIDEO**
   Connect composite video output from video equipment to this jack.
10. **AUDIO OUT**
    Connect to a speaker or other audio input equipment.

Remote control

1. **Power**
   Turn the projector on or off.
2. **VGA1**
   Display COMPUTER IN 1 signal.
3. **Aspect**
   Select the display aspect ratio.
4. **Keystone/Arrow keys (▲/Up, ▼/Down)**
   Manually correct distorted images resulting from an angled projection.
5. **◄Left**
   When the On-Screen Display (OSD) menu is activated, the #4, #5, and #20 keys are used as directional arrows to select the desired menu items and to make adjustments.
6. **My Button**
   User definable key for customized function.
7. **Menu**
   Display on-screen display menus.
8. **Right mouse**
   Perform the right button of the mouse when mouse mode is activated.
9. **Left mouse**
   Perform the left button of the mouse when mouse mode is activated.
10. **Mouse**
    Switch between the normal and mouse modes.
11. **Lock**
    Activate panel key lock.
12. **Freeze**
    Freeze the projected image.
13. **Blank**
    Hide the screen picture.
14. **Pattern**
    Display embedded test pattern.



15. **Source**
    Display the source selection bar.
16. **Video**
    Switch input source to Composite/S-Video/HDMI by sequence.
17. **VGA2**
    Display COMPUTER IN 2 signal.
18. **Auto**
    Automatically determines the best picture timings for the displayed image.
19. **Enter**
    Confirmed selections.
20. **►Right**
    When the On-Screen Display (OSD) menu is activated, the #4, #5, and #20 keys are used as directional arrows to select the desired menu items and to make adjustments.
21. **ESC**
    Exit OSD menu.

22. **Page Up**
    Perform page up function when mouse mode is activated.
23. **Page Down**
    Perform page down function when mouse mode is activated.
24. **Magnify**
    Magnifies or reduces the projected picture size.
25. **Volume**
    Adjust the volume level.
26. **Mute**
    Cut off the sound temporarily.
27. **Color Mode**
    Select the picture setup mode.
28. **Timer**
    Activate P-Timer OSD menu.

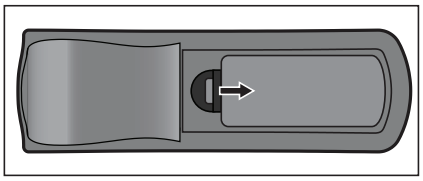
Using the remote mouse control

The capability of operating your computer with the remote control gives you more flexibility when delivering presentations.

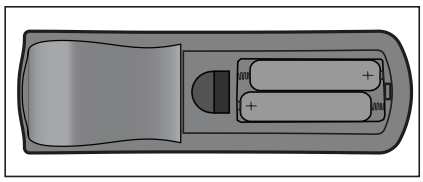
1. Connect the projector to your PC or notebook with a USB cable prior to using the remote control in place of your computer's mouse. See "Connecting a computer" on page 12 for details.
2. Set the input signal to **COMPUTER IN 1** or **COMPUTER IN 2**.
3. Press **Mouse** on the remote control to switch from the normal mode to the mouse mode. An icon appears on the screen to indicate the activation of the mouse mode.
4. Perform the desired mouse controls on your remote control.
    - To move the cursor on the screen, press ▲/ ▼/ ◄/► .
    - To left-click, press .
    - To right-click, press .
    - To drag-and-drop, press and hold **Enter**, press ▲/ ▼/ ◄/► to drag. When it is where you want it, press **Enter** again.
    - To operate your display software program (on a connected PC) which responds to page up/down commands (like Microsoft PowerPoint), press **Page Up**/**Page Down**.
    - To return to the normal mode, press **Mouse** again or other keys except for the mouse related multi-function keys.

Installing the Batteries

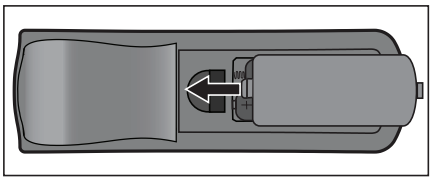
1. Open the battery cover in the direction shown.



2. Install batteries as indicated by the diagram inside the compartment.



3. Close the battery cover into position.



⚠ *Caution*

- ***Risk of explosion if battery is replaced by an incorrect type.***
- ***Dispose of used batteries according to the instructions.***
- ***Make sure the plus and minus terminals are correctly aligned when loading a battery.***

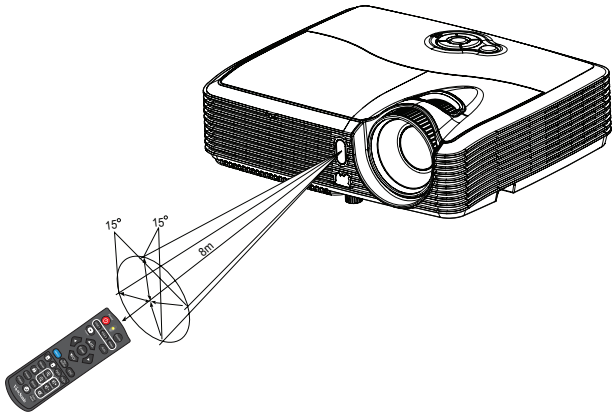
☞ *Note*

- ***Keep the battery out of the reach of children.***
- ***Remove batteries from remote control when not using for extended periods.***
- ***Do not recharge the battery or expose the battery to fire or water.***
- ***Do not dispose the used battery along with household waste. Dispose used batteries according to local regulations.***
- ***Danger of explosion may happen if batteries are incorrectly replaced. Replace only with the same type recommended by the manufacturer.***
- ***Battery should not be in or near to fire or water, keep batteries in a dark, cool and dry place.***
- ***If suspect battery leakage, wipe out the leakage and then replace a new battery. If the leakage adheres to your body or clothes, rinse well with water immediately.***

Remote control operation

Point the remote control at the infrared remote sensor and press a button.

- Operating the projector from the front.



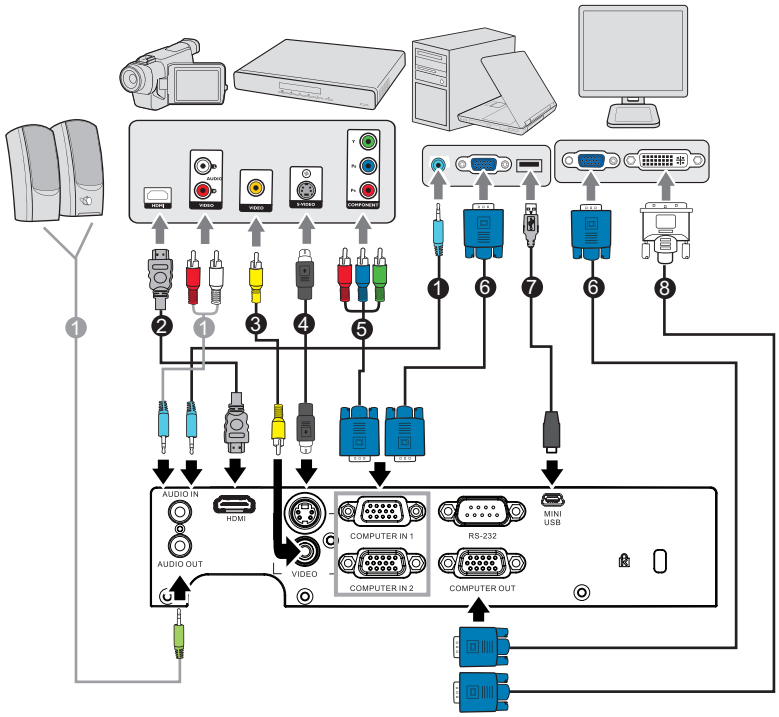
☞ ***Note***

- ***The remote control may not operate when there is sunlight or other strong light such as a fluorescent lamp shining on the remote sensor.***
- ***Operate the remote control from a position where the remote sensor is visible.***
- ***Do not drop the remote control or jolt it.***
- ***Keep the remote control out of locations with excessively high temperature or humidity.***
- ***Do not get water on the remote control or place wet objects on it.***
- ***Do not disassemble the remote control.***

Connection

When connecting a signal source to the projector, be sure to:

1. Turn all equipment off before making any connections.
2. Use the correct signal cables for each source.
3. Ensure the cables are firmly inserted.



1. Audio cable
2. HDMI cable
3. Composite Video cable
4. S-Video cable
5. VGA (D-Sub) to HDTV (RCA) cable
6. VGA cable (D-Sub to D-Sub)
7. USB cable
8. VGA to DVI-A cable

☞ ***Important***

- ***In the connections shown above, some cables may not be included with the projector (see "Package contents" on page 2). They are commercially available from electronics stores.***
- ***The connection illustrations above are for reference only. The rear connecting jacks available on the projector vary with each projector model.***
- ***For detailed connection methods, see pages 12-15.***

Connecting a computer or monitor

Connecting a computer

The projector provides two VGA input sockets that allow you to connect them to both IBM® compatibles and Macintosh® computers. A Mac adapter is needed if you are connecting legacy version Macintosh computers.

To connect the projector to a notebook or desktop computer:

1. Take the supplied VGA cable and connect one end to the D-Sub output socket of the computer.
2. Connect the other end of the VGA cable to the **COMPUTER IN 1** or **COMPUTER IN 2** signal input socket on the projector.

☞ ***Important***

- ***Many notebooks do not turn on their external video ports when connected to a projector. Usually a key combo like FN + F3 or CRT/LCD key turns the external display on/off. Locate a function key labeled CRT/LCD or a function key with a monitor symbol on the notebook. Press FN and the labeled function key simultaneously. Refer to your notebook's documentation to find your notebook's key combination.***

Connecting a monitor

If you want to view your presentation close-up on a monitor as well as on the screen, you can connect the **COMPUTER OUT** signal output socket on the projector to an external monitor with a VGA cable following the instructions below:

To connect the projector to a monitor:

1. Connect the projector to a computer as described in "Connecting a computer" on page 12.
2. Take a suitable VGA cable (only one supplied) and connect one end of the cable to the D-Sub input socket of the video monitor.
3. Or if your monitor is equipped with a DVI input socket, take a VGA to DVI-A cable and connect the DVI end of the cable to the DVI input socket of the video monitor.
4. Connect the other end of the cable to the **COMPUTER OUT** socket on the projector.

☞ ***Important***

- ***The COMPUTER OUT output only works when COMPUTER IN 1 or COMPUTER IN 2 is made to the projector.***

Connecting Video source devices

You can connect your projector to various Video source devices that provide any one of the following output sockets:

- HDMI
- Component Video
- S-Video
- Composite (video)

You need only connect the projector to a Video source device using just one of the above connecting methods, however each provides a different level of video quality. The method you choose will most likely depend upon the availability of matching terminals on both the projector and the Video source device as described below:

Terminal name	Terminal appearance	Reference	Picture quality
HDMI	HDMI	"Connecting an HDMI source device" on page 13	Best
Component Video	COMPUTER	"Connecting a Component Video source device" on page 14	Better
S-Video	S-VIDEO	"Connecting an S-Video source device" on page 14	Good
Composite (video)	VIDEO	"Connecting a composite Video source device" on page 15	Normal

Connecting an HDMI source device

Examine your Video source device to determine if it has a set of unused HDMI output jacks available:

- If so, you can continue with this procedure.
- If not, you will need to reassess which method you can use to connect to the device.

To connect the projector to an HDMI source device:

1. Take an HDMI cable and connect one end to the HDMI output jack of the HDMI source device.
2. Connect the other end of the HDMI cable to the HDMI jack on the projector.

Connecting a Component Video source device

Examine your Video source device to determine if it has a set of unused Component Video output sockets available:

- If so, you can continue with this procedure.
- If not, you will need to reassess which method you can use to connect to the device.

To connect the projector to a Component Video source device:

1. Take a VGA (D-Sub) to HDTV (RCA) cable and connect the end with 3 RCA type connectors to the Component Video output sockets of the Video source device. Match the color of the plugs to the color of the sockets; green to green, blue to blue, and red to red.
2. Connect the other end of the cable (with a D-Sub type connector) to the **COMPUTER IN 1** or **COMPUTER IN 2** socket on the projector.

☞ ***Important***

- ***If the selected video image is not displayed after the projector is turned on and the correct video source has been selected, check that the Video source device is turned on and operating correctly. Also check that the signal cables have been connected correctly.***

Connecting an S-Video source device

Examine your Video source device to determine if it has an unused S-Video output socket available:

- If so, you can continue with this procedure.
- If not, you will need to reassess which method you can use to connect to the device.

To connect the projector to an S-Video source device:

1. Take an S-Video cable and connect one end to the S-Video output socket of the Video source device.
2. Connect the other end of the S-Video cable to the **S-VIDEO** socket on the projector.

☞ ***Important***

- ***If the selected video image is not displayed after the projector is turned on and the correct video source has been selected, check that the Video source device is turned on and operating correctly. Also check that the signal cables have been connected correctly.***
- ***If you have already made a Component Video connection between the projector and this S-Video source device using Component Video connections, you need not connect to this device using an S-Video connection as this makes an unnecessary second connection of poorer picture quality. See "Connecting Video source devices" on page 13 for details.***

Connecting a composite Video source device

Examine your Video source device to determine if it has a set of unused composite Video output sockets available:

- If so, you can continue with this procedure.
- If not, you will need to reassess which method you can use to connect to the device.

To connect the projector to a composite Video source device:

1. Take a Video cable and connect one end to the composite Video output socket of the Video source device.
2. Connect the other end of the Video cable to the **VIDEO** socket on the projector.

☞ ***Important***

- ***If the selected video image is not displayed after the projector is turned on and the correct video source has been selected, check that the Video source device is turned on and operating correctly. Also check that the signal cables have been connected correctly.***
- ***You need only connect to this device using a composite Video connection if Component Video and S-Video inputs are unavailable for use. See "Connecting Video source devices" on page 13 for details.***

Operation

Powering on/off the projector

Powering on the projector:

1. Complete the AC power cord and peripheral signal cable(s) connections.
2. Press ⏻ to turn on the projector.
   The projector takes a minute or so to warm up.
3. Turn on your source (computer, notebook, DVD, etc.). The projector automatically detects your source.
   - If you are connecting multiple sources to the projector simultaneously, press **SOURCE** on the projector or **Source** on the remote control to select your desired signal or press your desired signal key on the remote control.

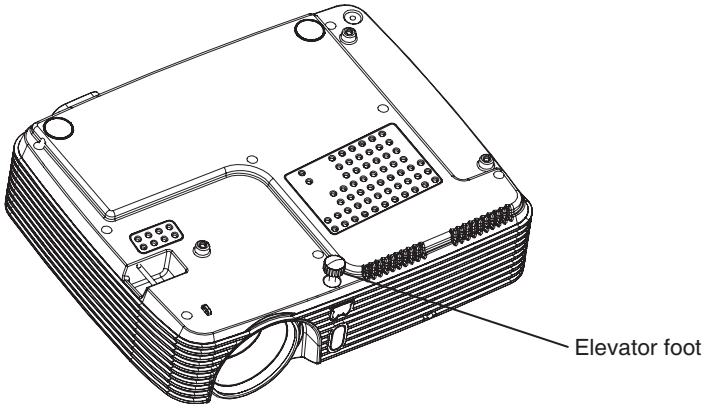
⚠ ***Warning***

- ***Never look into the lens when the lamp is on. This can damage your eyes.***
- ***This focal point concentrates high temperature. Do not place any object near it to avoid possible fire hazard.***

Powering Off the Projector:

1. Press ⏻ to turn off the projector lamp. You will see a message "Power off? Press Power again" appear on the screen.
2. Press ⏻ again to confirm.
   - The cooling fans continue to operate for cooling cycle when "Auto Power Off" function disable. No fan cooling is normally process if we turn on the "Auto power Off" function.
   - When green mode is turned off, the Power LED begins flashing and the projector has entered stand-by mode.
   - When green mode is turned on, the Power LED becomes steady light and the projector has entered stand-by mode.
   - If you want to turn the projector back on, you must wait until the projector has completed the cooling cycle and has entered stand-by mode. Once in stand-by mode, simply press ⏻ to restart the projector.
3. Disconnect the AC power cord from the electrical outlet and the projector.
4. Do not turn on the projector right after power off.

Adjusting the projector height

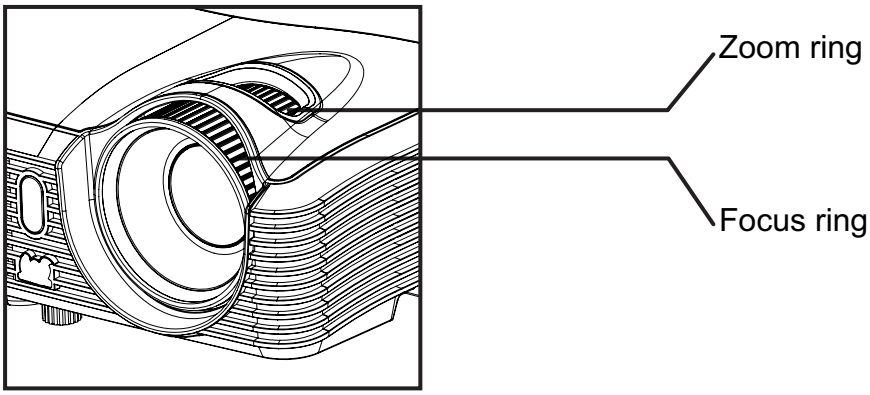


The projector is equipped with an elevator foot to adjust the image height. To raise or lower the image, turn the elevator foot to fine-tune the height.

☞ ***Note***

- ***To avoid damaging the projector, make sure that the elevator foot is fully retracted before placing the projector in its carrying case.***

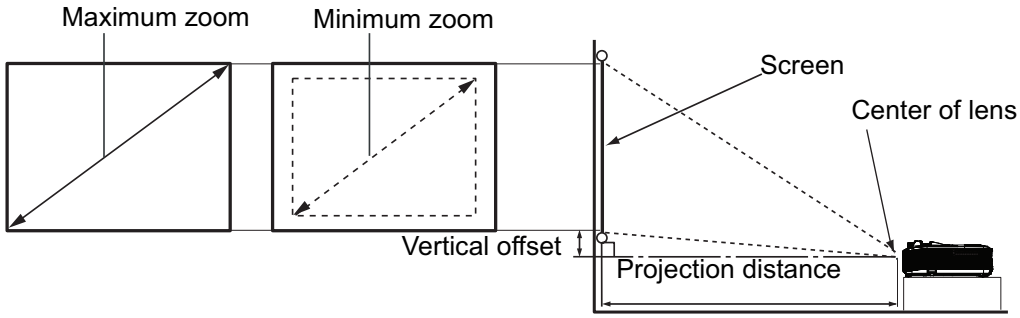
Adjusting the Projector Zoom and Focus



1. Focus the image by rotating the focus ring. A still image is recommended for focusing.
2. Adjust the image size by rotating the zoom ring.

Adjusting Projection Image Size

Refer to the graphic and table below to determine the screen size and projection distance.



Screen size Diagonal [inch (cm)]	16 : 10 Screen			
	Projection distance [inch (m)]		Image height [inch (cm)]	Vertical offset [inch (cm)]
	(min. zoom)	(max. zoom)		
45 (114)	55.4 (1.4)	69.3 (1.8)	23.85 (60.58)	2.96 (7.51)
60 (152)	74.5 (2.0)	92.9 (2.4)	31.8 (80.77)	3.94 (10.02)
80 (203)	100.0 (2.5)	124.4 (3.2)	42.4 (107.70)	5.26 (13.35)
100 (254)	125.5 (3.2)	155.8 (4.0)	53 (134.62)	6.57 (16.69)
150 (381)	189.2 (4.8)	234.6 (6.0)	79.5 (201.93)	9.86 (25.04)
200 (508)	253.0 (6.4)	313.3 (8.0)	106 (269.24)	13.14 (33.39)
250 (635)	316.7 (8.0)	392.0 (10.0)	132.5 (336.55)	16.43 (41.73)
300 (762)	380.4 (9.7)	-	159 (403.86)	19.72 (50.08)

☞ ***Note***

- ***Position the projector in a horizontal position; other positions can cause heat build-up and damage to the projector.***
- ***Keep a space of 30 cm or more between the sides of the projector.***
- ***Do not use the projector in a smoky environment. Smoke residue may build-up on critical parts and damage the projector or its performance.***
- ***There is 10% tolerance among these numbers due to optical component variations. It is recommended that if you intend to permanently install the projector, you should physically test the projection size and distance using the actual projector in situ before you permanently install it, so as to make allowance for this projector's optical characteristics. This will help you determine the exact mounting position so that it best suits your installation location.***

Locking control keys

With the control keys on the projector locked, you can prevent your projector settings from being changed accidentally (by children, for example). When the **Panel Key Lock** is on, no control keys on the projector will operate except **Power**.

1. Press **Lock** on the remote control.
2. A confirmation message is displayed. Select **Yes** to confirm.

To release panel key lock:

1. Press **Lock** on the remote control.
2. A confirmation message is displayed. Select **Yes** to confirm.

Setting the presentation timer

The presentation timer can indicate the presentation time on the screen to help you achieve better time management when giving presentations. Follow these steps to utilize this function:

1. Go to the **Option** > **Presentation Timer** menu and press ► on the projector or **Enter** on the remote control to display the **Presentation Timer** page.
2. Highlight **Timer Period** and decide the timer period by pressing ◄/►.

☞ ***Important***

- ***If the timer is already on, the timer will restart whenever the Timer Period is reset.***

3. Press ▼ to highlight **Display Timer** and choose if you want the timer to show up on the screen by pressing ◄/► .

Selection	Description
Always	Displays the timer on screen throughout the presentation time.
1 Min/2 Min/3 Min	Displays the timer on screen in the last 1/2/3 minute(s).
Never	Hides the timer throughout the presentation time.

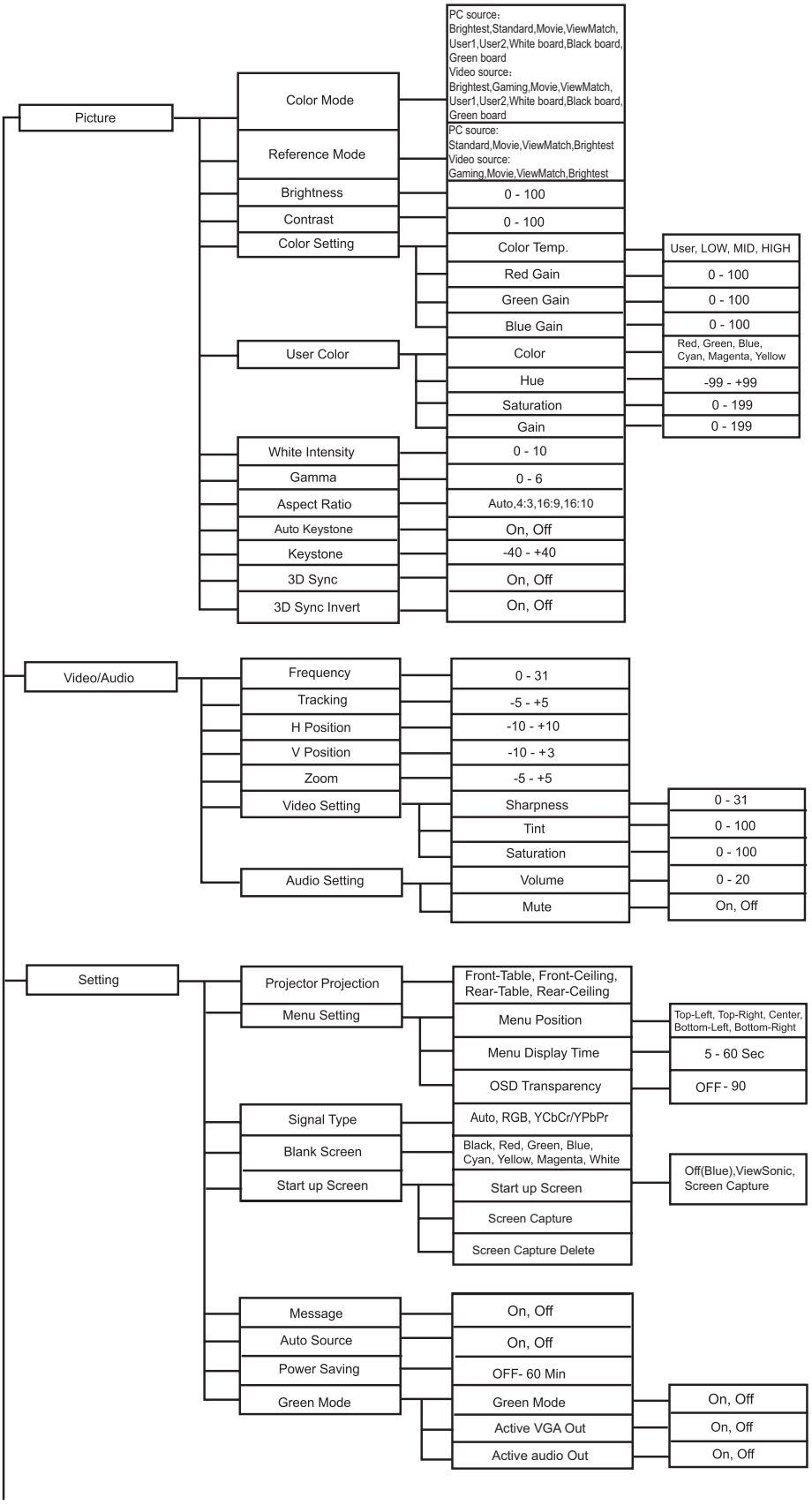
4. Press ▼ to highlight **Timer Position** and set the timer position by pressing ◄/►. Top-Left → Bottom-Left → Top-Right → Bottom-Right
5. Press ▼ to highlight **Timer Counting Direction** and select your desired counting direction by pressing◄/►.

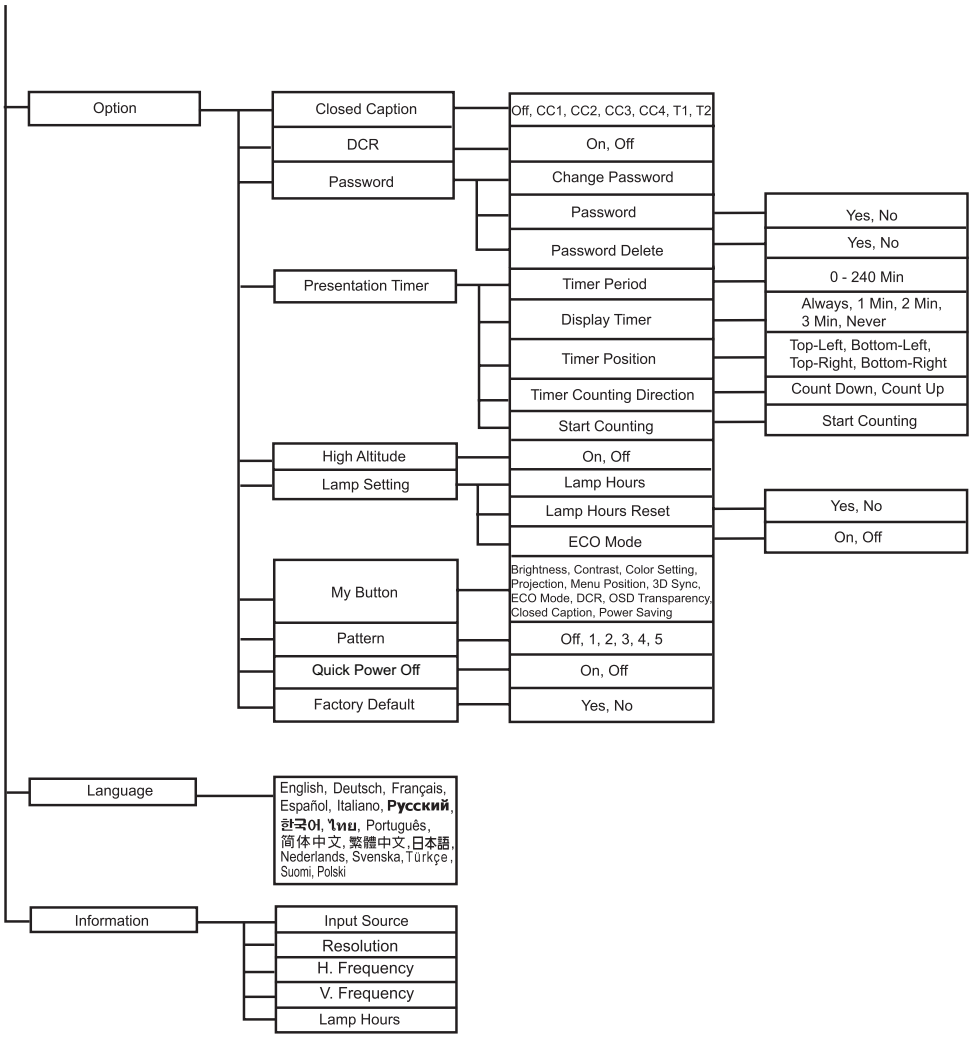
Selection	Description
Count Up	Increases from 0 to the preset time.
Count Down	Decrease from the preset time to 0.

6. To activate the presentation timer, press ▼ to highlight **Start Counting** and press ► on the projector or **Enter** on the remote control.
7. A confirmation message displays. Highlight Yes and press ► on the projector or **Enter** on the remote control to confirm.

Menu operation

The projector has multilingual on-screen display menus that allow you to make image adjustments and change a variety of settings.




Option
Closed Caption
DCR
Password
Presentation Timer
High Altitude
Lamp Setting
My Button
Pattern
Quick Power Off
Factory Default
Off, CC1, CC2, CC3, CC4, T1, T2
On, Off
Change Password
Password
Password Delete
Timer Period
Display Timer
Timer Position
Timer Counting Direction
Start Counting
On, Off
Lamp Hours
Lamp Hours Reset
ECO Mode
Brightness, Contrast, Color Setting, Projection, Menu Position, 3D Sync, ECO Mode, DCR, OSD Transparency, Closed Caption, Power Saving
Off, 1, 2, 3, 4, 5
On, Off
Yes, No
Yes, No
Yes, No
0 - 240 Min
Always, 1 Min, 2 Min, 3 Min, Never
Top-Left, Bottom-Left, Top-Right, Bottom-Right
Count Down, Count Up
Start Counting
Yes, No
On, Off
Language
English, Deutsch, Français, Español, Italiano, Русский, 한국어, ไทย, Português, 简体中文, 繁體中文, 日本語, Nederlands, Svenska, Türkçe, Suomi, Polski
Information
Input Source
Resolution
H. Frequency
V. Frequency
Lamp Hours

How to operate

1. Press **MENU** on the projector or **Menu** on the remote control to open the OSD menu.
2. When OSD is displayed, use ◄/► to select any feature in the main menu.
3. After selecting the desired main menu item, press ▼ to enter sub-menu for feature setting.
4. Use ▲/▼ to select the desired item and adjust the settings with ◄/►.
5. Press **MENU** on the projector or **Menu** on the remote control, the screen will return to the main menu.
6. To exit OSD, Press **MENU** on the projector or **Menu** on the remote control again. The OSD menu will close and the projector will automatically save the new settings.

Picture

Color Mode

There are many factory presets optimized for various types of images.

PC source:

- Brightest:For the brightest environment.
- Standard:For computer or notebook.
- Movie:For home theater.
- ViewMatch:For accuracy color performance.
- User 1:Memorize user 1 defined settings.
- User 2:Memorize user 2 defined settings.
- White board:For white projection screen type.
- Black board:For black projection screen type.
- Green board:For green projection screen type.

Video source:

- Brightest:For the brightest environment.
- Gaming:Suitable for all types of entertain media, including gaming and movies. (For video input signals only)
- Movie:For home theater.
- ViewMatch:For accuracy color performance.
- User 1:Memorize user 1 defined settings.
- User 2:Memorize user 2 defined settings.
- White board:For white projection screen type.
- Black board:For black projection screen type.
- Green board:For green projection screen type.

Reference Mode

Select a picture mode that best suits your need for the image quality and further fine-tune the image. This function is only available when User 1 or User 2 is selected.

PC source:

- Standard:For computer or notebook.
- Movie:For home theater.
- ViewMatch:For accuracy color performance.
- Brightest:For the brightest environment.

Video source:

- Gaming:Suitable for all types of entertain media, including gaming and movies. (For video input signals only)
- Movie:For home theater.
- ViewMatch:For accuracy color performance.
- Brightest:For the brightest environment.

Brightness

Brighten or darken the image.

Contrast

Set the difference between light and dark areas.

Color Setting

Adjust the color temperature. At higher temperature the screen looks colder; at lower temperature, the screen looks warmer. If you select “User”, then you can change the intensity of each of 3 color (Red, Green, Blue) to customize user color temperature.

User Color

User Color provides six sets (RGBCMY) of colors to be adjusted. When you select each color, you can independently adjust its range, hue, saturation and gain according to your preference.

White Intensity

Increase the brightness of white areas.

Gamma

Effect the represent of dark scenery. With greater gamma value, dark scenery will look brighter.

Aspect Ratio

Select how the picture fits on the screen:

- Auto: Scales an image proportionally to fit the projector's native resolution in its horizontal or vertical width. You want to make most use of the screen without altering the source image’s aspect ratio.
- 4:3: Scales an image so that it is displayed in the center of the screen with a 4:3 aspect ratio.

- 16:9: Scales an image so that it is displayed in the center of the screen with a 16:9 aspect ratio.
- 16:10: Scales an image so that it is displayed in the center of the screen with a 16:10 aspect ratio.

Auto Keystone
Automatically correct distorted images resulting from an angled projection.

Keystone
Manually correct distorted images resulting from an angled projection.

3D Sync
3D sync will be tune off automatically if enabled the Pattern function.
- On: Enable 3D function.
- Off: Disable 3D function.

3D Sync Invert (for TI 3D DLP-LINK only)
- On: Invert left and right frame contents.
- Off: Default frame contents.

Video/Audio

Frequency
Adjust the timing of the projector relative to the computer.

Tracking
Adjust the phase of the projector relative to the computer.

H Position (Horizontal Position)
Adjust the image left or right within the projection area.

V Position (Vertical Position)
Adjust the image up or down within the projection area.

Zoom
Zoom in and out the images.

Video Setting
Allow you to enter the Video Setting menu.
- Sharpness: Sharpen or soften the image.
- Tint: Shift colors toward red or green.
- Saturation: Adjust a video image from black and white to fully saturated color.

Audio Setting
Allow you to enter the Audio Setting menu.
- Volume: Adjust the projector’s volume level.
- Mute: Cut off the sound temporarily.

Setting

Projector Projection

Adjust the picture to match the orientation of the projector: upright or upside-down, in front of or behind the screen. Invert or reverse the image accordingly.

Menu Setting

Allow you to enter the Menu Setting menu.

- Menu Position: Choose the menu location on the display screen.
- Menu Display Time: Duration of OSD menu display countly starts (at idle state by second).
- OSD Transparency: Select to change the transparency level of the OSD background.

Signal Type

Specify the source to the COMPUTER IN 1/COMPUTER IN 2 terminal that you wish to project.

- Auto:Automatically detect the input signal type from COMPUTER IN 1 and COMPUTER IN 2 terminals.
- RGB:For VGA signal
- YCbCr/YPbPr:For component signal

Blank Screen

Blank the screen temporarily, and select the screen color when this function is active.

Start up Screen

Allow you to enter the Start up Screen menu. Screen capture doesn’t support in 3D pattern.

- Start up Screen: Select start up screen when the projector is powered on or when no signal is input. "User" is the screen that you captured.
- Screen Capture: Capture the current projection screen as a start up screen.
- Screen Capture Delete: Delete the captured projection screen.

Message

Enable or disable the message box at the right bottom of the screen.

Auto Source

Automatically scan through all the input source.

Power Saving

If the input source is not detected and no operation is performed for a specific period of time, projector will automatically turn off.

Green Mode

Enable this function when power consumption is under 1W.

- Active VGA out: selecting on outputs a VGA signal when the computer in 1 and

computer out sockets are correctly connected to devices. the projector output the signal received only from computer in 1.

- Active audio out: selecting on output a VGA signal when the computer in1 and computer out sockets are correctly connected to devices.

Option

Closed Caption

Enable or disable closed captions by selecting CC1 (closed caption1, the most common channel), CC2, CC3, CC4, T1, T2 or OFF.

DCR (Dynamic Contrast Ratio)

Enable DCR will further enhance contrast ratio by darkening the black scenes. Disable DCR will resume to normal contrast performance. DCR will impact lamp life and system noise performance.

Password

Set, change or delete the password. When the password function is added, image projection will require to input the preset password when turning on the projector.

Presentation Timer

Remind the presenter to finish the presentation within a certain time frame.

High Altitude

Use this function to allow the fans operates at full speed continuously to achieve proper high altitude cooling of the projector.

Lamp Setting

Allow you to enter the Lamp Setting menu.

- Lamp Hours: Display the lamp's elapsed operating time (in hours).
- Lamp Hours Reset: Reset the lamp Hour to 0 hours.
- ECO Mode: Use this function to dim the projector lamp light output which will lower power consumption and increase lamp life. This function will be unavailable when the DCR function is on.

My Button

Allow user to define a short cut key on the remote control, and the function item is selected in OSD menu.

Pattern

Display embedded test pattern.

Quick Power Off

Allow user to turn off projector immediately without waiting 60 seconds for fan to cool down.

Factory Default

Restore settings to factory default.

Language

Select the language used by the on-screen menu.

Information

Input Source
Display the current input source.

Resolution
Display current input source resolution.

H. Frequency
Display current image horizontal frequency.

V. Frequency
Display current image vertical frequency.

Lamp Hours
Display the lamp’s elapsed operating time (in hours).

Maintenance

The projector needs proper maintenance. You should keep the lens clean as dust, dirt or spots will project on the screen and diminish image quality. If any other parts need replacing, contact your dealer or qualified service personnel. When cleaning any part of the projector, always switch off and unplug the projector first.

⚠ ***Warning***

- ***Never open any of the covers on the projector. Dangerous electrical voltages inside the projector can cause severe injury. Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.***

Cleaning the lens

Gently wipe the lens with lens cleaning paper. Do not touch the lens with your hands.

Cleaning the projector housing

Gently wipe with a soft cloth. If dirt and stains are not easily removed, use a soft cloth damped with water, or water and neutral detergent, and wipe dry with a soft, dry cloth.

☞ ***Note***

- ***Turn off the projector and remove the AC power cord from the power outlet before beginning maintenance work.***
- ***Make sure the lens is cool before cleaning.***
- ***Do not use detergents or chemicals other than those noted above. Do not use benzene or thinners.***
- ***Do not use chemical sprays.***
- ***Use a soft cloth or lens paper only.***

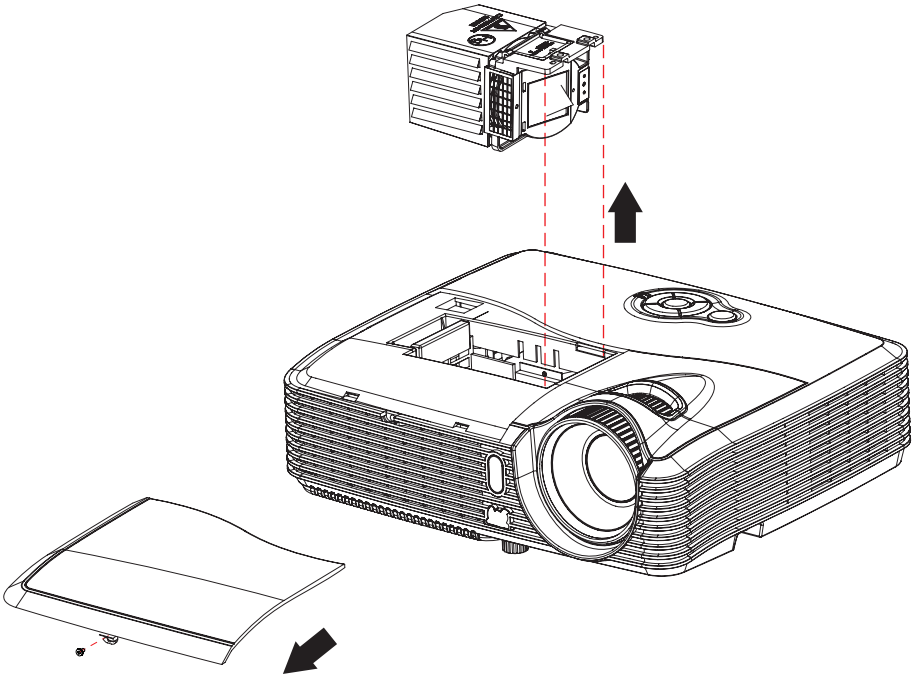
Replacing the Lamp

As the projector operates over time, the brightness of the projector lamp gradually decreases and the lamp becomes more susceptible to breakage. We recommend replacing the lamp if a warning message is displayed. Do not attempt to replace the lamp yourself. Contact the qualified service personnel for replacement.

☞ ***Note***

- ***The lamp is extremely hot right after turning off the projector. If you touch the lamp, you may scald your finger. When you replace the lamp, wait for at least 45 minutes for the lamp to cool down.***
- ***Do not touch the lamp glass at any time. The lamp may explode due to improper handling, including the touching of the lamp glass.***
- ***Lamp lifetime may differ from lamp to lamp and according to the environment of use. There is no guarantee of the same lifetime for each lamp. Some lamps may fail or terminate their lifetime in a shorter period of time than other similar lamps.***
- ***A lamp may explode as a result of vibration, shock or degradation as a result of hours of use as its lifetime draws to an end. Risk of explosion may differ according to the environment or conditions in which the projector and lamp are being used.***
- ***Wear protective gloves and eyeglasses when fixing or detaching the lamp.***
- ***Faster on-off-cycles will damage the lamp and reduce lamp life. Wait at least for 5 minutes to turn off the projector after powering on.***
- ***Do not operate the lamp in proximity to paper, cloth, or other combustible material nor cover it with such materials.***
- ***Do not operate the lamp in an atmosphere containing an inflammable substance, such as thinner.***
- ***Thoroughly ventilate the area or the room when operating the lamp in an oxygen atmosphere (in the air). If ozone is inhaled, it could cause headaches, nausea, dizziness, and other symptoms.***
- ***The inorganic mercury is involved in the lamp. If the lamp bursts, the mercury inside the lamp will be exposed. Leave the area immediately if the lamp shatters while being operated and ventilate the area for at least 30 minutes in order to avoid the inhalation of mercury fumes. Otherwise it could be harmful to user's health.***

1. Turn off the projector.
2. If the projector is installed in a ceiling mount, remove it
3. Unplug the power cord.
4. Loosen the screw in the side of the lamp cover and remove the cover.
5. Remove the screws from the lamp module, raise the handle, and lift out the module.
6. Insert the new lamp module into the projector and tighten the screws.
7. Replace the lamp cover and tighten the screw.
8. Turn on the projector. If the lamp does not turn on after the warm-up period, try reinstalling the lamp.
9. Reset the lamp hour. Refer to the "**Option > Lamp Setting**" menu.



☞ ***Note***

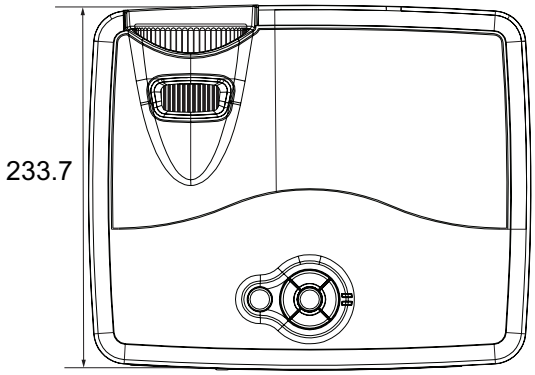
- ***Dispose the used lamp according to local regulations.***
- ***Ensure that screws are tightened properly. Screws not tightened fully may result in injury or accidents.***
- ***Since the lamp is made of glass, do not drop the unit and do not scratch the glass.***
- ***Do not reuse the old lamp. This could cause the lamp to explode.***
- ***Be sure to turn off the projector and unplug the AC power cord before replacing the lamp.***
- ***Do not use the projector with the lamp cover removed.***

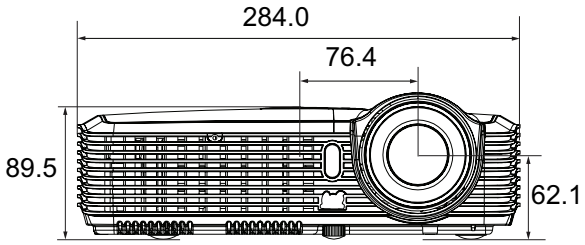
Specifications

Display system	Single 0.65" DLP panel
Resolution	HD 720p (1280 x 720 pixels), support (1280 x 800 pixels)
Zoom	1.2x
F/No.	1.47 - 1.83
Focal length	21.0 - 25.6mm
Screen size	45” - 300”
Lamp	180W
Input terminal	D-Sub 15-pin x 2, S-Video x 1, Video x 1, Audio signal input (3.5 mm stereo mini jack) x 1, HDMI x 1
Output terminal	D-Sub 15 pin x 1, Audio signal output (3.5 mm stereo mini jack) x 1
Control terminal	RS-232 x 1, Mini USB type x1 (supports firmware upgrade and remote mouse control)
Speaker	5 watt x 1
Video compatibility	NTSC, NTSC 4.43 PAL, PAL-N, PAL M SECAM, HDTV (480i/p, 576p, 720p, 1080i/p), Composite video
Scanning frequency Horizontal frequency Vertical frequency	 31 - 100 KHz 50 - 120 Hz
Environment	Operating: Temperature: 0°C to 40°C Humidity: 10%-80% Storage: Temperature: -20°C to 60°C Humidity:30%-85%
Power requirement	AC 100-240 V, 50 - 60 Hz, 2.6A
Power consumption	315 W (Max.)
Dimension (W x D x H)	284.0 x 233.7 x 89.5 mm
Weight	2.6 kg (5.7 lb)
Note: Design and Specifications are subject to change without prior notice.	

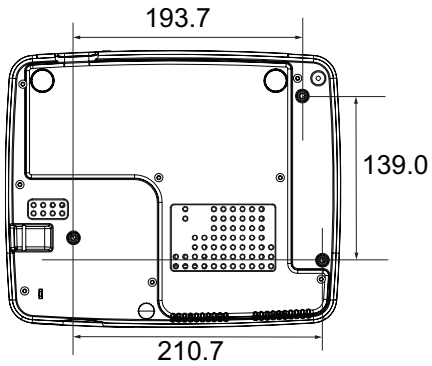
Dimensions

284.0 mm (W) x 233.7 mm (D) x 89.5 mm (H)





Ceiling mount installation



Ceiling mount screws:
M4 x 8 (Max. L = 8 mm)

Unit: mm

Appendix

LED Indicator Messages

LED Type	Color	Status	Meaning
Power LED	Blue	Solid	Standby mode when green mode is turned on.
Temp/Lamp LED	Blue/Red	Off	
Power LED	Blue	Flash	Standby mode when green mode is turned off.
Temp/Lamp LED	Blue/Red	Off	
Power LED	Blue	Solid	Powering up
Temp/Lamp LED	Blue/Red	Off	
Power LED	Blue	Solid	Normal operation
Temp/Lamp LED	Blue/Red	Off	
Power LED	Blue	Flash	The projector system has some problems with its fans, so the projector cannot start up.
Temp/Lamp LED	Magenta	Flash	
Power LED	Blue	Solid	The lamp has reached its end of life and must be changed soon. The lamp will continue to operate until it fails. Change the lamp. If the lamp is off, then the ballast will become malfunction.
Temp/Lamp LED	Lamp (Red)	Flash	
Power LED	Blue	Solid	1. Temperature is too high. The lamp will turn off. The fan motor is cooling the lamp. Or 2. The cooling process is not complete after the peojector is shut down and re-started right away. 3. The projector is powering down and normal cooling .
Temp/Lamp LED	Temp (Blue)	Flash	
Power LED	Blue	Solid	The lamp ignition failed.
Temp/Lamp LED	Magenta	Flash	

Compatibility Modes

Computer:

Resolution	H-Sync [KHz]	V-Sync [Hz]
640 x 350	37.9	85.0
640 x 480	24.6	50.0
	31.5	59.9
	37.9	72.8
	37.5	75.0
	43.3	85.0
	61.9	120.0
720 x 400	31.5	70.0
	37.9	85.0
800 x 600	31.0	50.0
	35.2	56.0
	37.9	60.3
	48.1	72.0
	46.9	75.0
	53.7	85.1
	76.3	120.0
1024 x 768	48.4	60.0
	56.5	70.1
	60.0	75.0
	68.7	85.0
	97.6	120.0
1152 x 864	67.5	75.0
1280 x 720	44.8	60.0
1280 x 768	47.8	60.0
1280 x 800	49.8	59.8
1280 x 960	60.0	60.0
	85.9	85.0
1280 x 1024	64.0	60.0
1400 x 1050	65.3	60.0
1600 x 1200	75.0	60.0
1680 x 1050	65,3	60,0

Video:

Compatibility	Resolution	H-Sync [KHz]	V-Sync [Hz]
480i	720 x 480	15.8	60
480p	720 x 480	31.5	60
576i	720 x 576	15.8	50
576p	720 x 576	31.3	50
720p	1280 x 720	37.5	50
720p	1280 x 720	45	60
1080i	1920 x 1080	33.8	60
1080i	1920 x 1080	28.1	50
1080p	1920 x 1080	67.5	60
1080p	1920 x 1080	56.3	50

Troubleshooting

Refer to the symptoms and measures listed below before sending the projector for repairs. If the problem persists, contact your local reseller or service center. Please refer to "LED Indicator Messages" as well.

Start-up problems

If no lights turn on:

- Be sure that the power cord is securely connected to the projector and the other end is plugged into an outlet with power.
- Press the power button again.
- Unplug the power cord and wait for a short while, then plug it in and press the power button again.

Image problems

If the searching source is displayed:

- Press **SOURCE** on the projector or **Source** on the remote control to select an active input source.
- Be sure the external source is turned on and connected.
- For a computer connection, ensure your notebook computer’s external video port is turned on. Refer to the computer manual.

If the image is out of focus:

- While displaying the on-screen menu, adjust the focus ring. (The image size should not change; if it does, you are adjusting the zoom, not the focus.)
- Check the projection lens to see if it needs cleaning.
- If the image is flickering or unstable for a computer connection:
- Press **MENU** on the projector or **Menu** on the remote control, go to ***Video/Audio*** and adjust ***Frequency*** or ***Tracking*****.**

Remote control problems

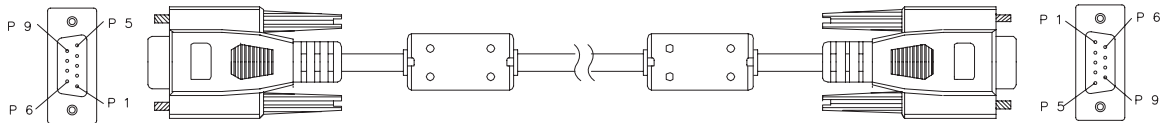
If the remote control does not operate:

- Be sure nothing is blocking the remote control receiver on the front of the projector. Use the remote control within the effective range.
- Aim the remote control at the screen or at the front of the projector.
- Move the remote control so it is more directly in front of the projector and not as far to the side.

RS-232 Command and Configuration

Function	Action	Control Code	Return Code
Power	Power on	BE,EF,10,05,00,C6,FF,11,11,01,00,01,00	6
	Power off	BE,EF,03,06,00,DC,DB,69,00,00,00,00,00	6
Source input	Computer1	BE,EF,03,19,00,19,29,01,47,02,CC,CC,00	6
	Computer2	BE,EF,03,19,1E,90,72,01,47,02,CC,CC,00	6
	S-Video	BE,EF,03,19,00,E8,69,01,47,02,CC,CC,00	6
	Composite(video)	BE,EF,03,19,00,78,A8,01,47,02,CC,CC,00	6
	HDMI	BE,EF,03,19,00,DA,2B,01,47,02,CC,CC,00	6
Projector position	Front table	BE,EF,10,07,9F,9D,0E,0A,EF,00,00,00,00	6
	Rear table	BE,EF,10,07,9F,9D,0E,0A,EF,01,00,00,01	6
	Front ceiling	BE,EF,10,07,9F,9D,0E,0A,EF,02,00,00,02	6
	Rear ceiling	BE,EF,10,07,9F,9D,0E,0A,EF,03,00,00,03	6
OSD	Menu	BE,EF,02,06,00,E9,D3,30,00,00,00,00,00	6
	Up	BE,EF,02,06,00,6D,D2,34,00,00,00,00,00	6
	Down	BE,EF,02,06,00,0B,D2,32,00,00,00,00,00	6
	Left	BE,EF,02,06,00,DA,D3,33,00,00,00,00,00	6
	Right	BE,EF,02,06,00,38,D2,31,00,00,00,00,00	6
Lamp	ECO on	BE,EF,03,06,00,EF,DB,6A,00,00,00,00,00	6
	ECO off	BE,EF,03,06,00,3E,DA,6B,00,00,00,00,00	6
	Using hours	BE,EF,03,06,00,BA,DB,6F,00,00,00,00,00	xxxx
Fan	High Attitude on	BE,EF,02,06,00,40,D3,80,00,00,00,00,01	6
	High Attitude off	BE,EF,02,06,00,40,D3,80,00,00,00,00,00	6
Keystone	Keystone up	BE,EF,03,06,00,10,DB,65,00,00,00,00,00	6
	Keystone down	BE,EF,03,06,00,23,DB,66,00,00,00,00,00	6
Aspect ratio	4:3	BE,EF,03,06,00,0D,DA,68,00,01,00,00,01	6
	16:9	BE,EF,03,06,00,0D,DA,68,00,02,00,00,02	6
	16:10	BE,EF,03,06,00,0D,DA,68,00,02,00,00,03	6
	Auto	BE,EF,03,06,00,0D,DA,68,00,02,00,00,00	6
Blank	Blank on	BE,EF,02,06,00,DF,DF,66,00,01,00,00,01	6
	Blank off	BE,EF,02,06,00,DF,DF,66,00,02,00,00,02	6
Freeze	Freeze on	BE,EF,02,06,00,02,D0,2B,00,01,00,00,01	6
	Freeze off	BE,EF,02,06,00,02,D0,2B,00,02,00,00,02	6
Volume	Volume +	BE,EF,02,06,00,F1,DE,68,00,00,00,00,00	6
	Volume -	BE,EF,02,06,00,20,DF,69,00,00,00,00,00	6
	Mute on	BE,EF,02,06,00,0E,DE,67,00,01,00,00,01	6
	Mute off	BE,EF,02,06,00,0E,DE,67,00,02,00,00,02	6
Auto source	Auto source on	BE,EF,03,06,00,89,DB,6C,00,00,00,00,00	6
	Auto source off	BE,EF,03,06,00,58,DA,6D,00,00,00,00,00	6
Auto Sync		BE,EF,02,06,00,86,D1,2F,00,00,00,00,00	6
Factory default		BE,EF,03,06,00,6B,DA,6E,00,00,00,00,00	6
Firmware version		BE,EF,03,06,00,D5,D9,70,00,00,00,00,00	PXX37-9....
System Status		BE,EF,03,06,00,04,D8,71,00,00,00,00,00	03=Power On 00=Off

3D Sync	3D Sync on	BE,EF,02,06,00,54,EF,7C,00,01,00,00,01	6
	3D Sync off	BE,EF,02,06,00,54,EF,7C,00,00,00,00,00	6
Color mode	Brightest	BE,EF,03,06,00,38,5A,88,12,08,08,12,08	6
	Standard	BE,EF,03,06,00,38,5A,88,10,00,00,10,00	6
	Gaming	BE,EF,03,06,00,38,5A,88,19,04,04,19,05	6
	Moive	BE,EF,03,06,00,38,5A,88,13,01,01,13,01	6
	ViewMatch	BE,EF,03,06,00,38,5A,88,14,02,02,14,02	6
	White Board	BE,EF,03,06,00,38,5A,88,15,05,05,15,05	6
	Black Board	BE,EF,03,06,00,38,5A,88,16,06,06,16,06	6
	Green Board	BE,EF,03,06,00,38,5A,88,17,07,07,17,07	6
	User 1	BE,EF,03,06,00,38,5A,88,18,03,03,18,03	6
	User 2	BE,EF,03,06,00,38,5A,88,19,04,04,19,04	6
Language	English	BE,EF,1A,0C,00,09,0B,3A,00,01,00,00,01	6
	Nederlands	BE,EF,1A,0C,00,09,0B,3A,00,02,00,00,02	6
	Français	BE,EF,1A,0C,00,09,0B,3A,00,03,00,00,03	6
	Español	BE,EF,1A,0C,00,09,0B,3A,00,04,00,00,04	6
	Italiano	BE,EF,1A,0C,00,09,0B,3A,00,05,00,00,05	6
	한국어	BE,EF,1A,0C,00,09,0B,3A,00,06,00,00,06	6
	ไทย	BE,EF,1A,0C,00,09,0B,3A,00,07,00,00,07	6
	Português	BE,EF,1A,0C,00,09,0B,3A,00,08,00,00,08	6
	繁體中文	BE,EF,1A,0C,00,09,0B,3A,00,09,00,00,09	6
	简体中文	BE,EF,1A,0C,00,09,0B,3A,00,0A,00,00,0A	6
	日本語	BE,EF,1A,0C,00,09,0B,3A,00,0B,00,00,0B	6
	Русский	BE,EF,1A,0C,00,09,0B,3A,00,0C,00,00,0C	6
	Deutsch	BE,EF,1A,0C,00,09,0B,3A,00,0D,00,00,0D	6
	Svenska	BE,EF,1A,0C,00,09,0B,3A,00,0E,00,00,0E	6
	Türkçe	BE,EF,1A,0C,00,09,0B,3A,00,0F,00,00,0F	6
	Suomi	BE,EF,1A,0C,00,09,0B,3A,00,10,00,00,10	6
	Polski	BE,EF,1A,0C,00,09,0B,3A,00,11,00,00,11	6
Magnify	Magnify Inc	BE,EF,02,06,00,22,55,76,00,00,00,00,01	6
	Magnify Dec	BE,EF,02,06,00,22,55,76,00,00,00,00,00	6
Green Mode	Green Mode On	BE,EF,02,06,00,40,B5,86,00,00,00,00,01	6
	Green Mode Off	BE,EF,02,06,00,40,B5,86,00,00,00,00,00	6
DCR	DCR On	BE,EF,02,06,00,D3,D1,2A,00,00,00,00,00	6
	DCR Off	BE,EF,03,06,00,EE,DA,6B,00,00,00,00,00	6
AutoKeystone	ON	BE,EF,03,06,00,10,DB,60,00,00,00,00,01	6
	OFF	BE,EF,03,06,00,10,DB,60,00,00,00,00,00	6



D-Sub 9 pin

1	1 CD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI

Wire List

C1	COLOR	C2
1	Black	1
2	Brown	2
3	Red	3
4	Orange	4
5	Yellow	5
6	Green	6
7	Blue	7
8	Purple	8
9	White	9
SHELL	DW	SHELL

IR Control Code

System Code: 83F4
Format : NEC

Customer Support

For technical support or product service, see the table below or contact your reseller.
Note : You will need the product serial number.

Country/Region	Web Site	T=Telephone F=Fax	E-mail
Australia/New Zealand	www.viewsonic.com.au	AUS=1800 880 818 NZ=0800 008 822	service@au.viewsonic.com
Canada	www.viewsonic.com	T (Toll-Free)= 1-866-463-4775 T (Toll)= 1-424-233-2533 F= 1-909-468-3757	service.ca@viewsonic.com
Europe	www.viewsoniceurope.com	www.viewsoniceurope.com/uk/support/call-desk/	
Hong Kong	www.hk.viewsonic.com	T= 852 3102 2900	service@hk.viewsonic.com
India	www.in.viewsonic.com	T= 1800 266 0101	service@in.viewsonic.com
Ireland (Eire)	www.viewsoniceurope.com/uk/	www.viewsoniceurope.com/uk/support/call-desk/	service_ie@viewsoniceurope.com
Korea	www.kr.viewsonic.com	T= 080 333 2131	service@kr.viewsonic.com
Latin America (Argentina)	www.viewsonic.com/la/	T= 0800-4441185	soporte@viewsonic.com
Latin America (Chile)	www.viewsonic.com/la/	T=1230-020-7975	soporte@viewsonic.com
Latin America (Columbia)	www.viewsonic.com/la/	T= 01800-9-157235	soporte@viewsonic.com
Latin America (Mexico)	www.viewsonic.com/la/	T= 001-8882328722	soporte@viewsonic.com
Renta y Datos, 29 SUR 721, COL. LA PAZ, 72160 PUEBLA, PUE. Tel: 01.222.891.55.77 CON 10 LINEAS Electroser, Av Reforma No. 403Gx39 y 41, 97000 Merida, Yucatan. Tel: 01.999.925.19.16 Other places please refer to http://www.viewsonic.com/la/soporte/index.htm#Mexico			
Latin America (Peru)	www.viewsonic.com/la/	T= 0800-54565	soporte@viewsonic.com
Macau	www.hk.viewsonic.com	T= 853 2870 0303	service@hk.viewsonic.com
Middle East	ap.viewsonic.com/me/	Contact your reseller	service@ap.viewsonic.com
Puerto Rico & Virgin Islands	www.viewsonic.com	T= 1-800-688-6688 (English) T= 1-866-379-1304 (Spanish) F= 1-909-468-3757	service.us@viewsonic.com soporte@viewsonic.com
Singapore/Malaysia/Thailand	www.viewsonic.com.sg	T= 65 6461 6044	service@sg.viewsonic.com
South Africa	ap.viewsonic.com/za/	Contact your reseller	service@ap.viewsonic.com
United Kingdom	www.viewsoniceurope.com/uk/	www.viewsoniceurope.com/uk/support/call-desk/	service_gb@viewsoniceurope.com
United States	www.viewsonic.com	T (Toll-Free)= 1-800-688-6688 T (Toll)= 1-424-233-2530 F= 1-909-468-3757	service.us@viewsonic.com

Limited Warranty

VIEWSONIC ® PROJECTOR

What the warranty covers:

ViewSonic warrants its products to be free from defects in material and workmanship, under normal use, during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, ViewSonic will, at its sole option, repair or replace the product with a like product. Replacement product or parts may include remanufactured or refurbished parts or components.

Limited Three (3) year General Warranty

Subject to the more limited one (1) year warranty set out below, North and South America: Three (3) years warranty for all parts excluding the lamp, three (3) years for labor, and one (1) year for the original lamp from the date of the first consumer purchase; Europe except Poland: Three (3) years warranty for all parts excluding the lamp, three (3) years for labor, and ninety (90) days for the original lamp from the date of the first consumer purchase; Poland: Two (2) years warranty for all parts excluding the lamp, two (2) years for labor, and ninety (90) days for the original lamp from the date of the first consumer purchase.

Limited One (1) year Heavy Usage Warranty:

Under heavy usage settings, where a projector's use includes more than fourteen (14) hours average daily usage, North and South America: One (1) year warranty for all parts excluding the lamp, one (1) year for labor, and ninety (90) days for the original lamp from the date of the first consumer purchase; Europe: One (1) year warranty for all parts excluding the lamp, one (1) year for labor, and ninety (90) days for the original lamp from the date of the first consumer purchase.

Other regions or countries: Please check with your local dealer or local ViewSonic office for the warranty information.

Lamp warranty subject to terms and conditions, verification and approval. Applies to manufacturer's installed lamp only. All accessory lamps purchased separately are warranted for 90 days.

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty does not cover:

1. Any product on which the serial number has been defaced, modified or removed.
2. Damage, deterioration, failure, or malfunction resulting from:
    a. Accident, abuse, misuse, neglect, fire, water, lightning, or other acts of nature, improper maintenance, unauthorized product modification, or failure to follow instructions supplied with the product.
    b. Operation outside of product specifications.
    c. Operation of the product for other than the normal intended use or not under normal conditions.
    d. Repair or attempted repair by anyone not authorized by ViewSonic.
    e. Any damage of the product due to shipment.
    f. Removal or installation of the product.
    g. Causes external to the product, such as electric power fluctuations or failure.

h. Use of supplies or parts not meeting ViewSonic's specifications.
i. Normal wear and tear.
j. Any other cause which does not relate to a product defect.

3. Removal, installation, and set-up service charges.

How to get service:

1. For information about receiving service under warranty, contact ViewSonic Customer Support (please refer to "Customer Support" page). You will need to provide your product's serial number.
2. To obtain warranted service, you will be required to provide (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.
3. Take or ship the product freight prepaid in the original container to an authorized ViewSonic service center or ViewSonic.
4. For additional information or the name of the nearest ViewSonic service center, contact ViewSonic.

Limitation of implied warranties:

There are no warranties, express or implied, which extend beyond the description contained herein including the implied warranty of merchantability and fitness for a particular purpose.

Exclusion of damages:

ViewSonic's liability is limited to the cost of repair or replacement of the product. ViewSonic shall not be liable for:

1. Damage to other property caused by any defects in the product, damages based upon inconvenience, loss of use of the product, loss of time, loss of profits, loss of business opportunity, loss of goodwill, interference with business relationships, or other commercial loss, even if advised of the possibility of such damages.
2. Any other damages, whether incidental, consequential or otherwise.
3. Any claim against the customer by any other party.

Effect of state law:

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on implied warranties and/or do not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

Sales outside the U.S.A. and Canada:

For warranty information and service on ViewSonic products sold outside of the U.S.A. and Canada, contact ViewSonic or your local ViewSonic dealer.

The warranty period for this product in mainland China (Hong Kong, Macao and Taiwan Excluded) is subject to the terms and conditions of the Maintenance Guarantee Card.

For users in Europe and Russia, full details of warranty provided can be found in www.viewsoniceurope.com under Support/Warranty Information.

Mexico Limited Warranty

VIEWSONIC ® PROJECTOR

What the warranty covers:

ViewSonic warrants its products to be free from defects in material and workmanship, under normal use, during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, ViewSonic will, at its sole option, repair or replace the product with a like product. Replacement product or parts may include remanufactured or refurbished parts or components & accessories.

How long the warranty is effective:

3 years for all parts excluding the lamp, 3 years for labor, 1 year for the original lamp from the date of the first consumer purchase.

Lamp warranty subject to terms and conditions, verification and approval. Applies to manufacturer's installed lamp only. All accessory lamps purchased separately are warranted for 90 days.

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty does not cover:

1. Any product on which the serial number has been defaced, modified or removed.
2. Damage, deterioration or malfunction resulting from:
   a. Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, unauthorized attempted repair, or failure to follow instructions supplied with the product.
   b. Any damage of the product due to shipment.
   c. Causes external to the product, such as electrical power fluctuations or failure.
   d. Use of supplies or parts not meeting ViewSonic's specifications.
   e. Normal wear and tear.
   f. Any other cause which does not relate to a product defect.
3. Any product exhibiting a condition commonly known as "image burn-in" which results when a static image is displayed on the product for an extended period of time.
4. Removal, installation, insurance, and set-up service charges.

How to get service:

For information about receiving service under warranty, contact ViewSonic Customer Support (Please refer to the attached Customer Support page). You will need to provide your product's serial number, so please record the product information in the space provided below on your purchase for your future use. Please retain your receipt of proof of purchase to support your warranty claim.

For Your Records

Product Name: _____ Model Number: _____

Document Number: _____ Serial Number: _____

Purchase Date: _____ Extended Warranty Purchase? _____(Y/N)

If so, what date does warranty expire? _____

1. To obtain warranty service, you will be required to provide (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.
2. Take or ship the product in the original container packaging to an authorized ViewSonic service center.
3. Round trip transportation costs for in-warranty products will be paid by ViewSonic.

Limitation of implied warranties:

There are no warranties, express or implied, which extend beyond the description contained herein including the implied warranty of merchantability and fitness for a particular purpose.

Exclusion of damages:

ViewSonic's liability is limited to the cost of repair or replacement of the product. ViewSonic shall not be liable for:

1. Damage to other property caused by any defects in the product, damages based upon inconvenience, loss of use of the product, loss of time, loss of profits, loss of business opportunity, loss of goodwill, interference with business relationships, or other commercial loss, even if advised of the possibility of such damages.
2. Any other damages, whether incidental, consequential or otherwise.
3. Any claim against the customer by any other party.
4. Repair or attempted repair by anyone not authorized by ViewSonic.

Contact Information for Sales & Authorized Service (Centro Autorizado de Servicio) within Mexico:	
Name, address, of manufacturer and importers: México, Av. de la Palma #8 Piso 2 Despacho 203, Corporativo Interpalmas, Col. San Fernando Huixquilucan, Estado de México Tel: (55) 3605-1099 http://www.viewsonic.com/la/soporte/index.htm	
NÚMERO GRATIS DE ASISTENCIA TÉCNICA PARA TODO MÉXICO: 001.866.823.2004	
Hermosillo: Distribuciones y Servicios Computacionales SA de CV. Calle Juarez 284 local 2 Col. Bugambilias C.P: 83140 Tel: 01-66-22-14-9005 E-Mail: disc2@hmo.megared.net.mx	***Villahermosa:*** Compumantenimietnos Garantizados, S.A. de C.V. AV. GREGORIO MENDEZ #1504 COL, FLORIDA C.P. 86040 Tel: 01 (993) 3 52 00 47 / 3522074 / 3 52 20 09 E-Mail: compumantenimientos@prodigy.net.mx
Puebla, Pue. (Matriz): RENTA Y DATOS, S.A. DE C.V. Domicilio: 29 SUR 721 COL. LA PAZ 72160 PUEBLA, PUE. Tel: 01(52).222.891.55.77 CON 10 LINEAS E-Mail: datos@puebla.megared.net.mx	***Veracruz, Ver.:*** CONEXION Y DESARROLLO, S.A DE C.V. Av. Americas # 419 ENTRE PINZÓN Y ALVARADO Fracc. Reforma C.P. 91919 Tel: 01-22-91-00-31-67 E-Mail: gacosta@qplus.com.mx
Chihuahua Soluciones Globales en Computación C. Magisterio # 3321 Col. Magisterial Chihuahua, Chih. Tel: 4136954 E-Mail: Cefeo@soluglobales.com	***Cuernavaca*** Compusupport de Cuernavaca SA de CV Francisco Leyva # 178 Col. Miguel Hidalgo C.P. 62040, Cuernavaca Morelos Tel: 01 777 3180579 / 01 777 3124014 E-Mail: aquevedo@compusupportcva.com
Distrito Federal: QPLUS, S.A. de C.V. Av. Coyoacán 931 Col. Del Valle 03100, México, D.F. Tel: 01(52)55-50-00-27-35 E-Mail : gacosta@qplus.com.mx	***Guadalajara, Jal.:*** SERVICRECE, S.A. de C.V. Av. Niños Héroes # 2281 Col. Arcos Sur, Sector Juárez 44170, Guadalajara, Jalisco Tel: 01(52)33-36-15-15-43 E-Mail: mmiranda@servicrece.com
Guerrero Acapulco GS Computación (Grupo Sesicomp) Progreso #6-A, Colo Centro 39300 Acapulco, Guerrero Tel: 744-48-32627	***Monterrey:*** Global Product Services Mar Caribe # 1987, Esquina con Golfo Pérsico Fracc. Bernardo Reyes, CP 64280 Monterrey N.L. México Tel: 8129-5103 E-Mail: aydeem@gps1.com.mx
MERIDA: ELECTROSER Av Reforma No. 403Gx39 y 41 Mérida, Yucatán, México CP97000 Tel: (52) 999-925-1916 E-Mail: rrrb@sureste.com	***Oaxaca, Oax.:*** CENTRO DE DISTRIBUCION Y SERVICIO, S.A. de C.V. Murguía # 708 P.A., Col. Centro, 68000, Oaxaca Tel: 01(52)95-15-15-22-22 Fax: 01(52)95-15-13-67-00 E-Mail. gpotai2001@hotmail.com
Tijuana: STD Av Ferrocarril Sonora #3780 L-C Col 20 de Noviembre Tijuana, Mexico	***FOR USA SUPPORT:*** ViewSonic Corporation 381 Brea Canyon Road, Walnut, CA. 91789 USA Tel: 800-688-6688 (English); 866-323-8056 (Spanish); Fax: 1-800-685-7276 E-Mail: http://www.viewsonic.com

ViewSonic®